

(No Model.)

M. F. HAMSLEY.
TOP FOR CANS.

No. 422,935.

Patented Mar. 11, 1890.

Fig. 1.

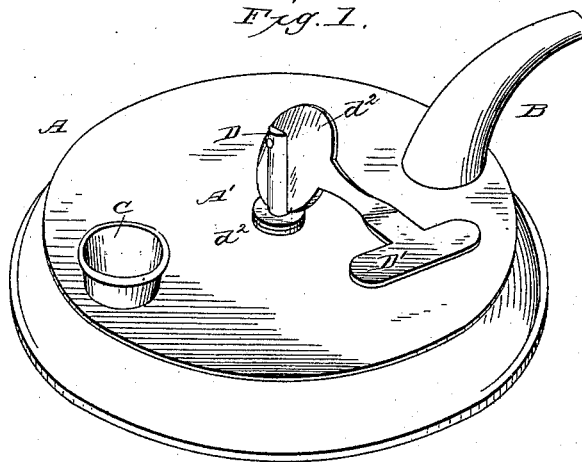


Fig. 2.

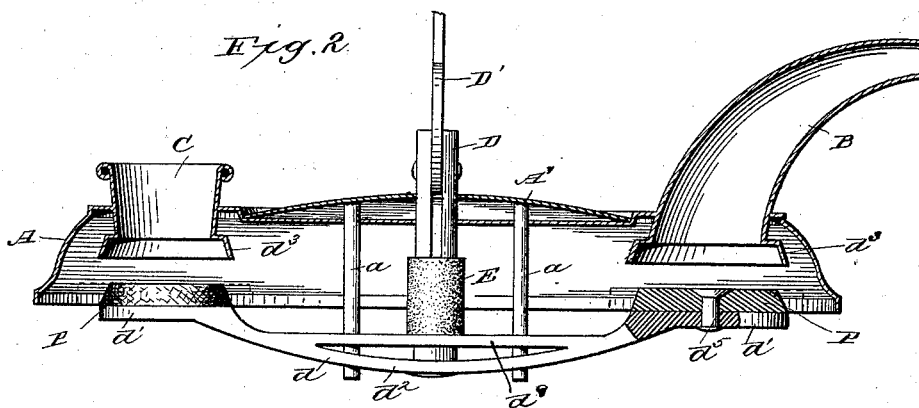
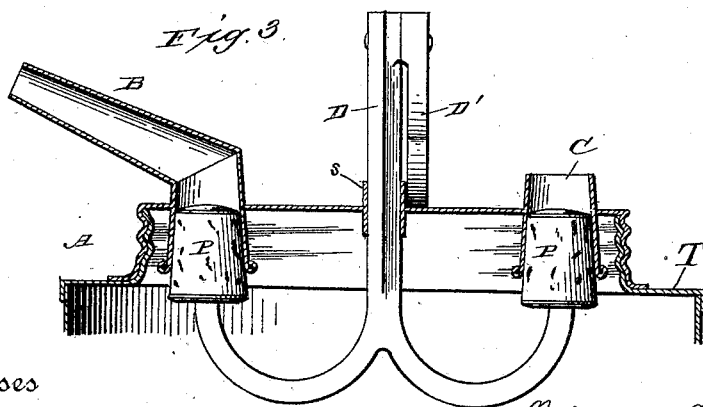


Fig. 3.



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TOP FOR CANS.

SPECIFICATION forming part of Letters Patent No. 422,935, dated March 11, 1890.

Application filed December 17, 1889. Serial No. 334,087. (No model.)

To all whom it may concern:

Be it known that I, MILLARD F. HAMSLEY, of Brooklyn, New York, have invented certain new and useful Improvements in Tops for Cans, &c.; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the letters of reference marked thereon.

This invention relates to improvements in that class of receptacles designed especially for the reception of liquids—such as oils, &c.—and provided with a vent or filling-orifice and a discharge or pouring nozzle; and it consists in the novel and improved form and construction of the devices for simultaneously opening and closing said orifices, as herein-after fully described, and the novel features pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective of my improved can-top and attachments. Fig. 2 is a sectional view of same. Fig. 3 is a sectional view illustrating a modification.

Similar letters of reference in the several figures indicate the same parts.

A represents the can top or cap, preferably of sheet metal and provided with a pouring-spout B and a filling tube or nozzle C, the latter serving also as a vent when discharging the contents of the vessel through the spout B. If the top or cap A is formed of thin sheet metal, as is usual, its upper portion may be re-enforced by the addition of a plate or strip A', preferably arched somewhat to afford greater strength and rigidity, and provided with two dependent pins or guides *a a*, projecting below the upper plate of the cap. A spindle D is passed vertically through an opening in said plate A', its lower end being provided with or secured to a cross-head *d*, while its upper end is furnished with a handle D', pivotally attached to the stem D, so that it may be turned down, and provided with a cam surface or surfaces *d*², engaging the plate A', or washers interposed between said plate and cam, the latter operating to raise the cross-head *d* when the handle is turned and to permit said cross-head to descend when the handle is elevated. The cross-head *d* is guided upon pins *a a*, and is preferably formed

with flat ends *d*' and a slightly-curved concavo-convex central portion *d*³, provided with a brace *d*⁴, this form being well adapted to strengthen the cross-bar, so as to better resist the pressure brought to bear by the handle, and thus prevent binding.

To the ends *d* of the cross-bar are attached packings P, which co-operate with the inner ends of the filling and pouring orifices when the cross-bar is raised to prevent the entrance of air or the escape of the contained liquid. To insure a tight joint, the inner ends of these orifices may be formed or provided with collars *d*⁵, and the packings may be fitted to enter within said collars. The packings may be secured upon the cross-pieces by a rivet or rivets *d*⁵.

Upon the stem or spindle D is or may be placed a collar E, of rubber or other elastic material, adapted to co-operate with the top of the can to form a tight joint when the cross-head is elevated, and serving also as a spring to retract the cross-head when the handle is turned to release the stem.

The operation of my improved devices is obvious. The dependent pins or guides serve to direct the packings or stoppers into or against the filling and pouring orifices whenever the stem is drawn out, so as to elevate the cross-head, and this is effected either by turning the handle or by lifting or elevating the receptacle by means of the handle, for in the latter event the weight of the can will cause it to descend, thus bringing the orifices down upon the packings.

The elastic collar E serves two purposes: first, as a packing for the spindle, and, second, as a means for retracting the cross-head when the pressure is relieved from the spindle.

In the modification shown in Fig. 3 the pins *a a* are omitted and the stem is formed angular in section, and passed through a correspondingly-shaped opening in a stuffing-box *s*, whereby the cross-head is guided to cause the packings to register with the orifices in the top and prevent leakage around the spindle or stem. The actuating-cam is omitted, and the handle or loop is arranged to engage the top or cover to lock and hold the cross-head elevated with the apertures closed.

The can-top with my improvements applied thereto may be made separate from the

body of the can, to which latter it may either be permanently secured or detachably applied, as shown in Fig. 3, wherein the top is provided with a screw-threaded flange or collar fitting a similar collar on the can body or breast T.

Having thus described my invention, what I claim as new is—

1. The combination, with the can-top having filling and pouring orifices, of a movable cross-head carrying stoppers or packings, a stem connected to said cross-head and passing through the can-top, and a locking device applied to the said stem for holding the stoppers or packings against said orifices, substantially as described.

2. The combination, with the can-top having filling and pouring orifices, of the cross-head provided with a stem guided to reciprocate through the cover and carrying separate packings or stoppers for said orifices, and a handle pivotally connected to said stem and provided with a cam for reciprocating and locking the cross-head, substantially as described.

3. The combination, with the can-top having filling and pouring orifices, of the re-enforcing plate provided with dependent guides, the cross-head reciprocating on said guides, carrying packings for said orifices and provided with a stem passing through the cover, and a handle connected to the outer ends of said stem, substantially as described.

4. The combination of the can-top having filling and pouring orifices, the stem passing through said top, the cross-head connected to

said stem and provided with stoppers, guides within the can for preventing lateral displacement of said cross-head, and a handle applied to said stem for reciprocating the cross-head to simultaneously open and close said orifices, substantially as described.

5. The combination, with a can-top having filling and pouring orifices, of the cross-head guided to reciprocate within the can and bearing stoppers for the orifices in the top, a stem connected to said cross-head and passing through the can-top, and a packing surrounding said stem, substantially as described.

6. The combination, with the can-top having filling and pouring orifices, of the re-enforcing plate applied to the top and provided with dependent guides, the stem passing through said plate and provided with a pivoted handle, the cross-head attached to said stem and carrying the packings or stoppers for the orifices, said cross-head engaging the dependent guides, and the elastic packing surrounding the stem, substantially as described.

7. The combination, with the can-top having filling and pouring orifices, of the stem passing through said top and provided at one end with a handle and cam and at the other end with a cross-head curved longitudinally, and provided with a brace to prevent bending and bearing the packings for the orifices, substantially as described.

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